



# Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63029

Entry Year 2023

Acreage: 1,609

County Osceola

Management Area: Evert Block

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**Revision Date:** 2021-06-04

**Stand Examiner:** Michael Aksamit

**Legal Description:**

T19N,R09W  
Sections 26, 34, and 35

**Identified Planning Goals:**

Vegetation management in the Evert Block management area (MA) will provide timber products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period years will focus on balancing the age-class distributions for aspen and regenerating oak. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends within this 10-year planning period are the need to regenerate oak, the need to continue to balance aspen age classes, the need to diversify forest cover types and an increase in recreation pressure.

**Soil and topography:**

Montcalm, Chelsea, Rubicon. Areas vary from nearly level to very steep terrain.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:**

Private farm and woodlands border the north and west edges of this compartment. Isolated block of private ownership in section 34 consisting of approximately 80 acres which would be desirable for acquisition by the State to help keep state land contiguous and improve access and management options. Acquisition of the 40 acre parcel in section 26 SWSW is encouraged.

**Unique Natural Features:**

Loons, blanding's turtle, wood turtle, grasshopper sparrow, and henslow's sparrow recorded for this compartment. Potential for karner blue, dusted skipper, ottoe skipper, great Plains spittlebug, box turtle, hill's thistle, alleghany plum, and missouri rock cress.

**Archeological, Historical, and Cultural Features:**

Areas within the Evert block of state lands were once maintained as a sheep ranch.

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:**

Patrick Lake present within compartment. No Fisheries comments at this time.

**Wildlife Habitat Considerations:**

This compartment is part of the Evert GEMS. Featured wildlife species are deer, ruffed grouse and pileated woodpecker. Management emphasis will include appropriate buffers for all lowland types, oak regeneration, and balancing age classes of aspen types. Timber sale specifications to benefit these featured species (where applicable) will include protection of mast-bearing wildlife shrubs and ironwood, protection of standing dead snags, and creation of drumming logs (1-2 per acre) and woody debris (tops or whole trees) in aspen cuts. Mast and browse shrub plantings have taken place in the past as partnership projects and will likely continue.

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of an end moraine of coarse-textured till. The glacial drift thickness varies between 800 and 1,000 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for clay/shale in other parts of the State. The nearest gravel pit is two miles to the northwest and gravel potential is considered to be good. The compartment lies one mile east of Rose Lake Field. The field has produced over 2.0 million BO from the Devonian Traverse Limestone and over 3.3 Bcf gas from the PdC. Section 35 has been leased for oil and gas and also nonmetallic potash development.

**Vehicle Access:**

Roads access is limited through compartment, with access to the western portion of compartment from Cedar Road to the south. The eastern portion of the stand can also be accessed from Cedar Road to the south or Sunrise Lake Road to the east. Many roads are in poor shape, and RDRs have been submitted. Additionally, a roads proposal has been submitted to close a small stretch of dead end road in the western portion of the stand.

**Survey Needs:**

NW Corner of NWNW, Section 34

NW and SW Corners of SESW, Section 26

**Recreational Facilities and Opportunities:**

This compartment contains several miles of designated hunter walk in access trails, as well as the Mark Knee Memorial GEMS area and parking lot. Area is used by recreationist for berry picking, hunting, dispersed camping, and color touring.

**Fire Protection:**

County road to the south of the compartment will allow access for fire suppression. Large equipment will be limited to county roads. Forest roads will allow access with 4 wheel drive fire suppression equipment. Most fuel type will not support crown fire. The private property adjoining the state land has cabins in remote areas, which could be an urban interface issue.

**Additional Compartment Information:**

Compartment received damage from 2018 windthrow event and contains a large salvage cut. Additional small pockets of blowdown are present throughout the compartment, some of which are prescribed for harvest and will be discussed at pre-review.

**The following reports from the Inventory are attached:**

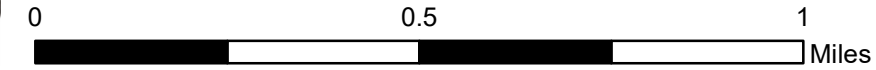
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

**The following information is displayed, where pertinent, on the attached compartment maps:**

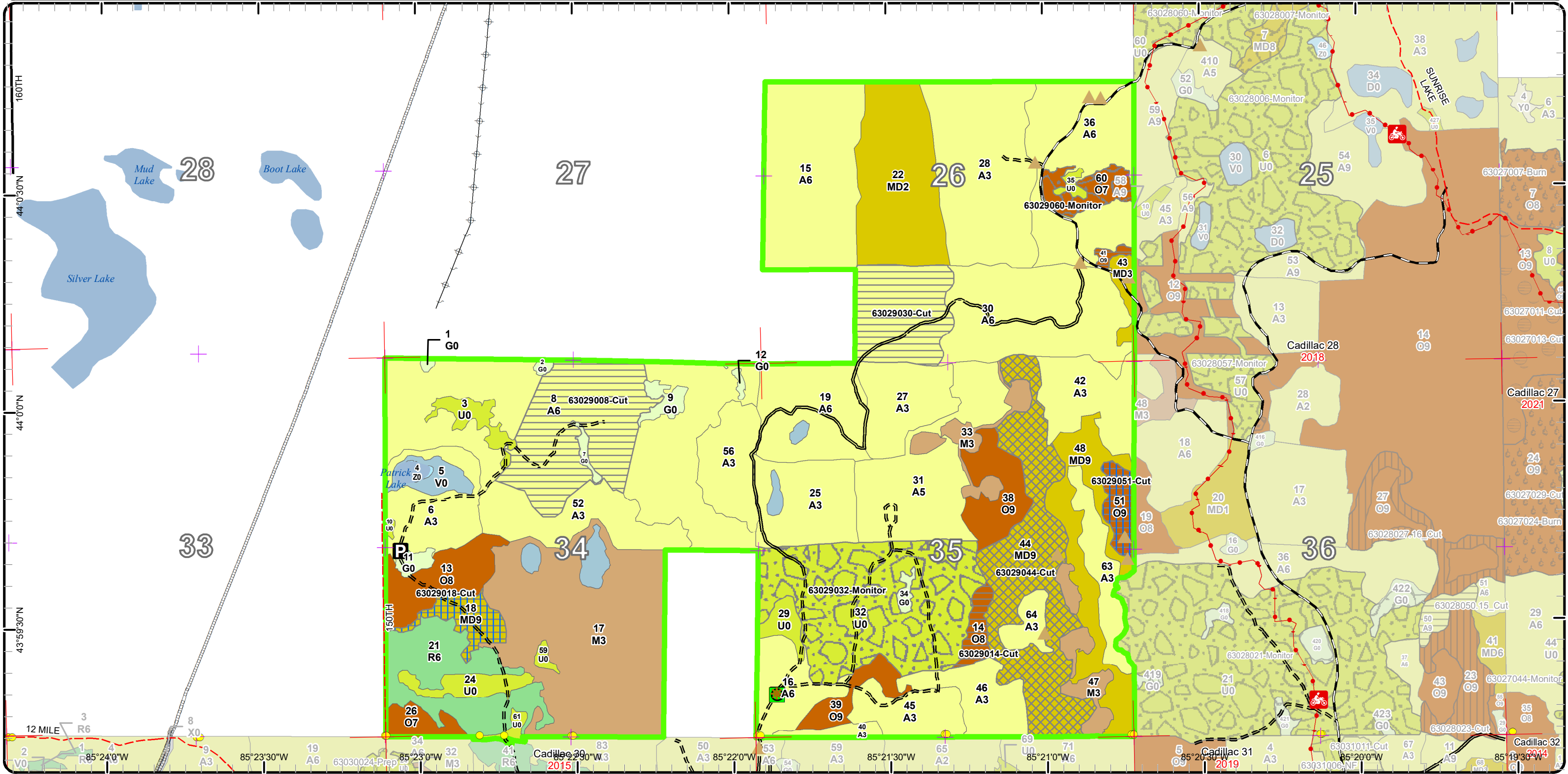
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 29  
 T19N 09W Sec. 26,34,35  
 County: Osceola  
 Unit: Cadillac  
 Mgmt Area: Evert Block  
 YOE: 2023  
 Acres: 1608.6 GIS Calculated  
 Examiner: Michael Aksamit  
 Map Revised: 6/10/2021  
 Map Phase: Web-Post

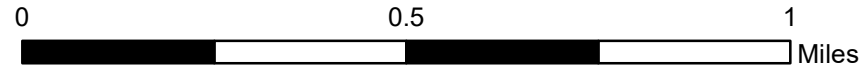


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Dirt Road (Seasonal)
- Motorcycle Trails (DNR License)
- ORV License & Trail Permit
- Berms
- Gate
- Parking Lot
- \* Trailhead
- Lake/Pond
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

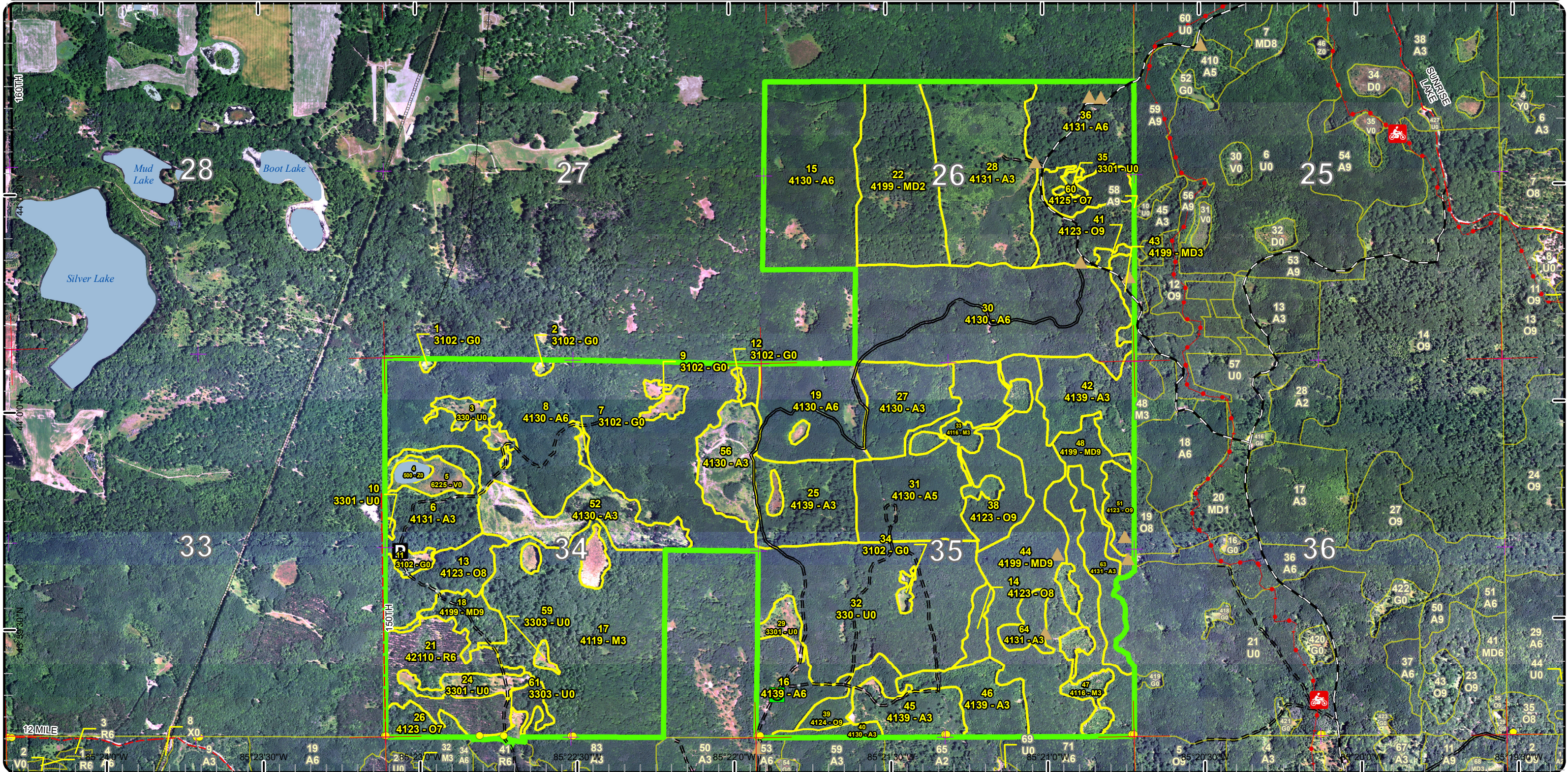


# Stand Boundary Map

Compartment: 29  
 T19N 09W Sec. 26,34,35  
 County: Osceola  
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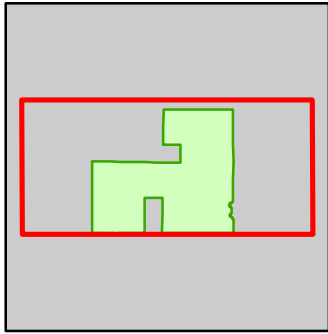
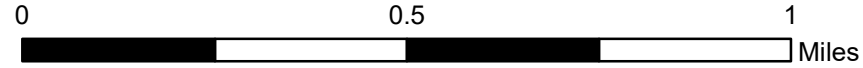


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- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Dirt Road (Seasonal)
- 🏍️ Motorcycle Trails (DNR License)
- ORV License & Trail Permit
- ▲ Berms
- Gate
- P Parking Lot
- ✳️ Trailhead
- Lake/Pond
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Stand Boundaries
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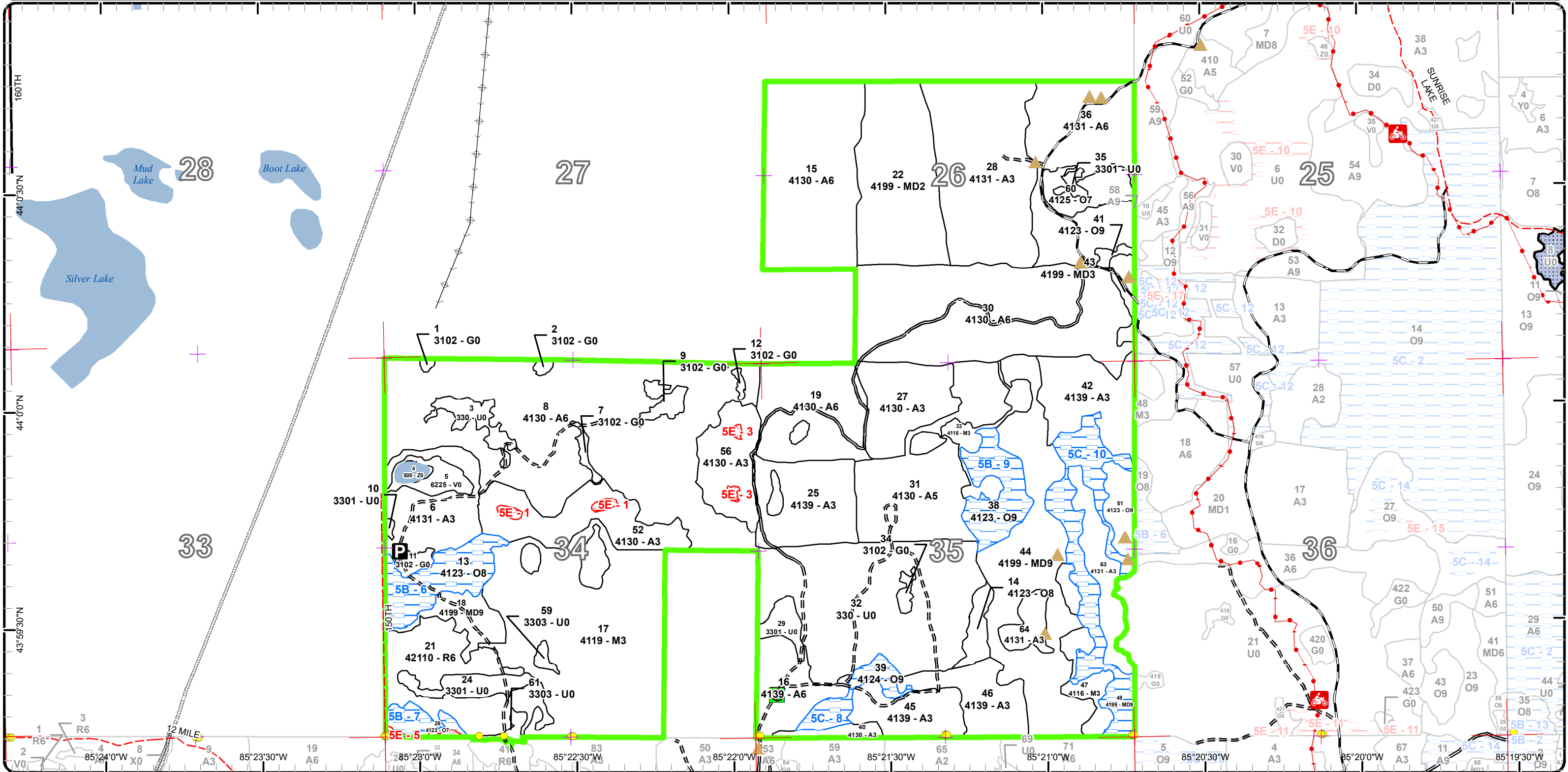


# Special Conservation Areas

Compartment: 29  
 T19N 09W Sec. 26,34,35  
 County: Osceola  
 Unit: Cadillac  
 Mgmt Area: Evert Block  
 YOE: 2023  
 Acres: 1608.6 GIS Calculated  
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- Lake/Pond
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Fishing Access Site



Michael Aksamit : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	94	137	190	208	298	0	0	0	0	0	0	0	0	0	0	0	0	927
Bog	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Herbaceous Openland	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Low-Density Trees	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	140
Mixed Upland Deciduous	0	0	0	70	0	0	0	0	0	0	95	42	0	0	0	0	0	0	207
Northern Hardwood	0	0	28	126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154
Oak	0	0	0	0	0	0	0	0	0	11	56	33	0	0	0	0	0	0	100
Red Pine	0	0	0	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0	44
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<b>Total</b>	<b>178</b>	<b>94</b>	<b>165</b>	<b>386</b>	<b>208</b>	<b>342</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>151</b>	<b>75</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1609</b>



## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 29

Total Compartment Acres: 1,609

Commercial Harvest - 224  
 Harvests with Site Condition - 0  
 Next Step Harvest - 300  
 Habitat Cut - 300

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	109	0	0	0	0	0	0	0	0	109
Mixed Upland Deciduous	0	82	0	13	0	0	0	0	0	95
Oak	9	0	0	11	0	0	0	0	0	20
<b>Total</b>	<b>118</b>	<b>82</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>224</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	224	0	0	0	0	0	121	0	0	345
Next Step	300	0	0	0	11	0	175	0	0	486
<b>Total</b>	<b>524</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>296</b>	<b>0</b>	<b>0</b>	<b>831</b>



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat
											Cut

**Proposed Treatments:**

<b>8</b>	<b>63029008-Cut</b>	68.5	4130 - Aspen	Poletimber Well	47	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut, use standard retention. Include grouse drumming log spec.  <u>Specs:</u> Hunter walk-in trail exists in treatment and should be protected during harvest.  <u>Next Step</u> Harvest, Clearcut with Retention; Harvest, Clearcut with Retention; Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Aspen, Red Maple, Oak  <u>Regen:</u>  <u>Other</u> Intent is to treat 1/3 of stand 8 every entry for the next three entries to diversify age classes.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>14</b>	<b>63029014-Cut</b>	7.2	4123 - Red Oak	Sawtimber Medium	102	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut stand, no retention due to small size. Harvest windthrow within stand.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Oak, Maple, Aspen, Cherry  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>18</b>	<b>63029018-Cut</b>	13.2	4199 - Other Mixed Upland Deciduous	Sawtimber Well	98	51-80	Harvest	Seed Tree	412 - Oak Types	Two-Aged	No
<p><u>Prescription</u> Seed tree oak to 10-20 BA, focusing on trees that are more likely to be wind firm. Retain all red pine. High-stump cut red maple. Whole tree skid. Salvage all windthrow in stand.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Primarily oak, with some maple or aspen acceptable.  <u>Regen:</u>  <u>Other</u> Stand has pockets of blowdown that should be removed through harvest  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>30</b>	<b>63029030-Cut</b>	40.6	4130 - Aspen	Poletimber Well	43		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut and remove all aspen and red maple. Use grouse drumming log spec. Use road to the south for hauling to improve access.

Specs:

Stand contains hunter walk-in access trail which should be protected during harvest.

Next Step ; Harvest, Clearcut with Retention; Harvest, Clearcut with Retention; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Red Maple, Other Mixed Hardwoods

Regen:

Other Intent is to treat 1/3 of stand 30 every entry for the next three entries to diversify age classes.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>32</b>	<b>63029032-Monitor</b>	107.8	330 - Low-Density Trees	Nonstocked	0		Monitoring	Natural Regen (Intermediate)	4131 - Aspen, Oak	Even-Aged	No
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Prescription Stand cut in 2019. Final harvest due to windthrow.

Specs:

Next Step

Treatments:

Acceptable Aspen, red oak, white oak and a mix of upland deciduous species.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 1 /1 /2022

<b>41</b>	<b>63029041-Cut</b>	2.0	4123 - Red Oak	Sawtimber Well	100	141-170	Harvest	Clearcut with Retention	412 - Oak Types	Two-Aged	No
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Prescription Clearcut, reserving all oak species over 18" in DBH, all black cherry, and all paper birch. High stump cut red maple. Whole tree skid.

Specs:

Next Step Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak, cherry, some red maple

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>44</b>	<b>63029044-Cut</b>	82.0	4199 - Other Mixed Upland Deciduous	Sawtimber Well	98	141-170	Harvest	Group Selection	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Cut and remove all aspen. Grouse drumming log spec.

Specs:

Next Step Harvest, Other - Specify

Treatments:

Acceptable Oak, some red maple, some aspen

Regen:

Other

Comment: Next entry in 2033, high stump cut all red maple. Seed tree oak to 10-20 BA.

Site Condition

Proposed Start Date: 10/1 /2022



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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
51	63029051-Cut	10.6	4123 - Red Oak	Sawtimber Well	101	51-80	Harvest	Seed Tree	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Seed tree cut to 10-20 BA, focusing on leaving healthy looking, wind firm oaks. Whole tree skid to prep the seed bed.</p> <p><u>Specs:</u> Hunter walk-in access trail exists in stand and should be protected during harvest.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Burn, Slash; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak, Maple, Aspen</p> <p><u>Regen:</u></p> <p><u>Other</u> Stand 18 in C28 to the east has same conditions</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
60	63029060-Monitor	12.7	4125 - Black, N. Pin Oak	Sawtimber Poor	105	1-50	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Two-Aged	No
<p><u>Prescription</u> Monitor for regeneration. Stand wasn't regenerating well when inventoried in 2021.</p> <p><u>Specs:</u> If regeneration is still poor when inspected, discuss additional treatment options to promote regeneration.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak, Maple, Cherry, some Aspen</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											

**Total Treatment** 344.6  
**Acreage Proposed:**

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Michael Aksamit : Examiner

Compartment: 29  
Year of Entry: 2023

### Availability for Management

Total	Acres	<b>Acres Avail</b>	Acres	
Acres	Available	<b>With Condition</b>	Not Available	

### Dominant Site Conditions

506	506	0	0	Aspen
	0	0	0	Bog
16	16	0	0	Herbaceous Openland
28	28	0	0	Low-Density Trees
70	70	0	0	Mixed Upland Deciduous
14	14	0	0	Northern Hardwood
	0	0	0	Oak
44	44	0	0	Red Pine
2	2	0	0	Water
679	679			Total Forested Acres
	100%			Relative Percent

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention for stand 26, timber sale #63-032-13-01, "West 29 Mix".							

**Report 4 – Site Conditions**

**Cadillac Mgt. Unit**  
**Michael Aksamit : Examiner**

**Compartment: 29**  
**Year of Entry: 2023**

6	Available	5B: Maintain for regeneration purposes	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold for ten years to assess other cuts in the area and diversify ages and conditions in area.							
9	Available	5B: Maintain for regeneration purposes	22	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cutting majority of stands in vicinity. S38 was recently cut, delay treatment for regeneration purposes.							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	42	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold for ten years to assess other cuts in the area and diversify ages and conditions in area.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



## Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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Mgt. Unit

Compartment:

Year of Entry



### Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
HCVA = High Conservation Value Area  
SCA = Special Conservation Area

<b>Conservation Area</b>	<b>Type</b>	<b>Description</b>
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
1	3102 - Grass	Nonstocked	0.7			No																																				
2	3102 - Grass	Nonstocked	1.1			No																																				
3	330 - Low-Density Trees	Nonstocked	8.6			No																																				
4	500 - Water	Nonstocked	2.5			No																																				
5	6225 - Bog	Nonstocked	19.0			No																																				
6	4131 - Aspen, Oak	Sapling Well	30.6	27	Immature	N/A	Stand treated timber sale #63-030-90-01, "Back Forties". Cut 1993-1994.																																			
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>30</td> <td>Sapling/Pole</td> <td>4</td> <td>27</td> </tr> <tr> <td>Red Oak</td> <td>20</td> <td>Log/Pole</td> <td>12</td> <td>97</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>45</td> <td>Sapling</td> <td>4</td> <td>27</td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Pole/Sapling</td> <td>5</td> <td>27</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	30	Sapling/Pole	4	27	Red Oak	20	Log/Pole	12	97	Bigtooth Aspen	45	Sapling	4	27	Black Cherry	5	Pole/Sapling	5	27																
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Bigtooth Aspen	45	Sapling	4	27																																						
Black Cherry	5	Pole/Sapling	5	27																																						
7	3102 - Grass	Nonstocked	2.1			No																																				
8	4130 - Aspen	Poletimber Well	183.8	47	Unspecified	N/A	2021: Aspen size is variable in stand, some clones are very small (5-6") while others are approaching log sized. Cut one third of stand each entry, starting this cycle (2021) to diversify age classes.  6/13/2016: Large, varied stand. Stand treated in 1974, #21-73A. Stand has regenerated very well with pockets of mature big tooth aspen mixed in with medium to large pulp aspen, red maple pulp to small logs, and light to heavy witch hazel. Small amount of red oak pulp to log, occasional white birch and black cherry. Some quaking aspen mixed in with big tooth.																																			
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9	3102 - Grass	Nonstocked	5.1			No																																				
10	3301 - Low Density Deciduous Trees	Nonstocked	0.7		Immature	No																																				
11	3102 - Grass	Nonstocked	3.6			No	Parking area with kiosk, WL planted shrubs. Scattered scrubby cherry and oak.																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
12	3102 - Grass	Nonstocked	1.1			No																																										
13	4123 - Red Oak	Sawtimber Medium	24.8	98	51-80	N/A	Stand treated timber sale #63-032-13-01, "West 29 Mix". Cut in 2016. Specs were to cut all aspen, red maple, and orange marked trees.																																									
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14	4123 - Red Oak	Sawtimber Medium	7.2	102	81-110	N/A	2021: Blowdown present throughout stand, appears to be due to clear-cut to west. Some of surviving oaks are looking rough, partially tipped or losing bark.  2011: Stand treated timber sale #63-049-13-01, "Aspen & Orange". Cut in 2016. Stand set up previous entry but not cut (old #63-043-03-01, Indian Pipe Mix").																																									
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16	4139 - Aspen, Mixed Deciduous	Poletimber Well	24.1	36	81-110	N/A	Stand treated timber sale #63-018-83-01. Cut in 1985.																																									
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17	4119 - Mixed Northern Hardwoods	Sapling Well	126.3	25	1-50	N/A	Stand treated timber sale #63-030-93-01, "Back Forties". Cut 1993-1994.																																									
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18	4199 - Other Mixed Upland Deciduous	Sawtimber Well	13.2	98	51-80	N/A	2021: Lots of blowdown																																																					
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19	4130 - Aspen	Poletimber Well	44.4	36	51-80	N/A	Occasional white birch. Most of the birch is located around the bog (stand 5). Hold stand for 10 years and final harvest.																																																					
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21	42110 - Planted Red Pine	Poletimber Well	44.2	47	141-170	N/A	3/25/2021: Stand has been third row thinned. Pockets of heavy red maple regeneration around 3 ft. tall. Some mixed hardwood pockets within stand. 8/7/2014: Stand planted 1974. Some aspen, black cherry, red maple, and/or oak in rows.																																																					
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22	4199 - Other Mixed Upland Deciduous	Sapling Medium	63.8	26	1-50	N/A	Stand treated in 1995, cutting only aspen and red maple. Pockets of aspen regeneration scattered in stand. Overstory oak approx. 12" DBH.																																																					
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24	3301 - Low Density Deciduous Trees	Nonstocked	10.1			No	3/25/21: Low density cherry, with pockets of red maple regeneration.																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
<b>25</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	36.2	16		N/A	Stand treated timber sale #63-028-03-01, "Evert Morel Hardwoods". Cut 1995. Paper birch mostly around the bog (stand 5).																																					
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<b>26</b>	4123 - Red Oak	Sawtimber Poor	8.8	98	1-50	N/A	Stand treated timber sale #63-032-13-01, "West 29 Mix". Cut in 2016. Specs were to cut all trees except oak.																																					
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<b>27</b>	4130 - Aspen	Sapling Well	31.1	27	Immature	N/A	Stand treated timber sale #63-003-93-01, "Camo Cabin Aspen". Cut 1994.																																					
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<b>28</b>	4131 - Aspen, Oak	Sapling Well	78.4	14	Immature	N/A	Stand treated timber sale #63-034-04-01, "Hamstring Oak". Sale cut 2007. Aspen regen with areas of blackberries and overstory oak.																																					
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<b>29</b>	3301 - Low Density Deciduous Trees	Nonstocked	6.4			No	Wildlife planted shrubs present																																					
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<b>30</b>	4130 - Aspen	Poletimber Well	114.4	43		N/A	Feb 2021: Stand is becoming mature and is high quality. Cut stand in thirds on a ten year rotation to diversify age classes, starting this entry. Stand treated timber sale #24-76A. Cut in 1978.																																					
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<b>31</b>	4130 - Aspen	Poletimber Medium	58.9	36	111-140	N/A	Stand treated timber sale #63-018-83-012. Cut in 1985.																																					
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32	330 - Low-Density Trees	Nonstocked	107.8	0		No																									
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33	4116 - Mixed N. Hardwood - Aspen	Sapling Well	13.8	14	Immature	N/A	Stand treated timber sale #63-034-04-01, "Hamstring Oak". Cut in 2007. Good amount of red oak seedlings up to 2" as well as stump sprouts.																								
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34	3102 - Grass	Nonstocked	2.2		Immature	No																									
35	3301 - Low Density Deciduous Trees	Nonstocked	2.1		Immature	No																									
36	4131 - Aspen, Oak	Poletimber Well	66.6	25		N/A	Stand treated timber sale #63-029-93-01, "NW Territory". Previous comment: Excellent acorn year when cut in 1996.																								
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38	4123 - Red Oak	Sawtimber Well	22.0	98	81-110	N/A	2021: Stand appears to have been cut since last entry. Looks like all aspen was removed, and RO & RM was marked. 2011: Small pockets of black oak/lower quality red oak scattered through stand. Pockets of smaller and larger diameters scattered throughout stand.																								
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Black/Red (Hybrid) Oak	5	Log/Pole	10																												
39	4124 - Red with White Oak	Sawtimber Well	11.3	88	111-140	N/A	2021: Stand is right on the edge of being ready to treat. The oak in the stand ranges from 10-14 inches mostly on the lower end. The surrounding stands are composed of young to very young aspen so this stand sits somewhat on an island. Potential for harvest during next entry as the oak is at 86 years old.																								
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40	4130 - Aspen	Sapling Well	5.2	25		N/A	Stand treated timber sale #63-014-95-01, "Sugar Bowl Aspen & Oak". Cut in 1996.																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
41	4123 - Red Oak	Sawtimber Well	2.0	100	141-170	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Oak		65	Log	14	100	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Maple		25	Log/Pole	10		Hawthorn (spp.)	Low	10 - 20 feet	Tall Shrub
White Oak		10	Log	16		Red Maple	Medium	>20 feet	Pole
42	4139 - Aspen, Mixed Deciduous	Sapling Well	32.3	27	Immature	N/A	Stand treated timber sale #63--004-93-01, "Cat Track Hills I + II". Cut in 1994.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		40	Sapling/Pole	4	27	Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen		55	Sapling/Pole	4	27				
Black Cherry		5	Sapling/Pole	4	27				
43	4199 - Other Mixed Upland Deciduous	Sapling Well	6.0	25	1-50	N/A	Stand treated timber sale #63-008-95-01, "Cat Scat HDWD". Previous comment: Excellent acorn production when stand was cut in fall of 1996.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		50	Sapling/Pole	3	25	Witch Hazel	Medium	< 5 feet	Tall Shrub
Red Oak		5	Pole/Sapling	5					
Bigtooth Aspen		35	Sapling/Pole	3	25				
White Oak		10	Log/Pole	12	96				
44	4199 - Other Mixed Upland Deciduous	Sawtimber Well	82.0	98	141-170	N/A	2011: Small pockets of black oak/lower quality red oak scattered through stand. Pockets of smaller and larger diameters scattered throughout stand.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		20	Pole/Log	8		Red Maple	Low	10 - 20 feet	Sapling
Red Oak		40	Log/Pole	12	98	Ironwood	Low	10 - 20 feet	Sapling
White Oak		5	Log/Pole	12		Witch Hazel	High	10 - 20 feet	Tall Shrub
Bigtooth Aspen		30	Log/Pole	10		Sassafras	Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak		5	Log/Pole	10					
45	4139 - Aspen, Mixed Deciduous	Sapling Well	22.3	16		N/A	Stand treated timber sale #63-028-03-01, "Evert Morel Hardwoods". Cut in 2005. Young aspen stand with good amount of red maple clumps and scattered overstory red oak.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		35	Sapling	2	16	Black Raspberry	Medium	< 5 feet	Tall Shrub
Red Oak		15	Log	14	100	Red Oak	Low	5 - 10 feet	Sapling
Bigtooth Aspen		45	Sapling	2	16	Red Maple	Medium	5 - 10 feet	Sapling
Black Cherry		5	Sapling	2	16				
46	4139 - Aspen, Mixed Deciduous	Sapling Well	24.2	27		N/A	Stand treated timber sale #63-003-93-01, "Camo Cabin Aspen". Young aspen stand coming along nicely. Lots of grouse.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		30	Pole/Sapling	5	27	Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen		55	Pole/Sapling	5	27	Bigtooth Aspen	Medium	5 - 10 feet	Sapling
Black Cherry		15	Sapling	4	27				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
47	4116 - Mixed N. Hardwood - Aspen	Sapling Well	14.3	14	Immature	N/A	2011: Stand treated timber sale #63-034-04-01, "Hamstring Oak". Cut in 2007. Good amount of red oak seedlings up to 2" as well as stump sprouts.																																									
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48	4199 - Other Mixed Upland Deciduous	Sawtimber Well	42.2	101	141-170	N/A	Previous Inventory Comments: Higher quality oak and aspen but quality decrease to the south of the stand. Lower BA's of red maple overall.																																									
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51	4123 - Red Oak	Sawtimber Well	10.6	101	51-80	N/A	4/16/21: Nice red oak stand, primarily small log sized. Lots of red maple regeneration underneath, as well as scattered beech and hazel. Some oaks are epicormic branching.  Stand treated timber sale #63-011-08-01, Icey Vista.																																									
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52	4130 - Aspen	Sapling Well	37.8	7	Immature	N/A	Stand treated timber sale #63-015-13-01, "Blastin' Aspen". Large, varied stand. Stand treated in 1974, #21-73A.																																									
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56	4130 - Aspen	Sapling Well	26.9	6	Immature	N/A	2/11/21: Stand regenerating well to aspen and red maple. Stand treated timber sale #63-015-13-01, "Blastin' Aspen". Previous Inventory Comments: Stand has regenerated very well with pockets of mature bigtooth aspen mixed in with medium to large pulp aspen, red maple pulp to small logs, and light to heavy witch hazel. Small amount of red oak pulp to log, occasional white birch and black cherry. Some quaking aspen mixed in with big tooth. Large, varied stand. Stand treated in 1974, #21-73A.																																									
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59	3303 - Mixed Low Density Trees	Nonstocked	1.7		Unspecified	No																																										
60	4125 - Black, N. Pin Oak	Sawtimber Poor	12.7	105	1-50	N/A	2/11/21: Poor regeneration Stand treated timber sale #63-048-16-01, "14 Acres Maple & Aspen".																																									
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61	3303 - Mixed Low Density Trees	Nonstocked	2.7		Immature	No																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>63</b>	4131 - Aspen, Oak	Sapling Well	20.0	4	Immature	N/A	Stand was treated in Fall 2017 as part of sale # "63-014-13", "Deer Patches".			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		28	Sapling	1		Red Maple		Low	5 - 10 feet	Sapling
Red Oak		20	Sapling	1		Witch Hazel		Low	5 - 10 feet	Tall Shrub
White Oak		5	Sapling	1						
Bigtooth Aspen		45	Sapling	1	4					
Black Cherry		2	Sapling	1						

<b>64</b>	4131 - Aspen, Oak	Sapling Well	8.9	4	Immature	N/A	Stand was treated in Fall 2017 as part of sale # "63-014-13", "Deer Patches".			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		35	Sapling	1		Ironwood		Low	10 - 20 feet	Sapling
Red Oak		22	Sapling	1		Witch Hazel		Low	10 - 20 feet	Tall Shrub
White Oak		3	Sapling	1		Sassafras		Low	10 - 20 feet	Sapling
Bigtooth Aspen		40	Sapling	1	4					